

# RELIABLE WINE FILTRATION

## The best way to use HOBRA products



### HOBRAFILT® – Depth filter sheets

Table for use

| Purification level                        | To remove   | Filtersheet type | Nominal retention | Flow rate l/m <sup>2</sup> /hour | Max. pressure difference |
|---|---|------------------|-------------------|----------------------------------|--------------------------|
| Pre-filtration<br>– purifying             | coarse sludge   | S 100 N          | 11 µm             | 1,000 l                          | 3 bars                   |
|   |   | S 80 N           | 8 µm              |                                  |                          |
|   |   | S 60 N           | 6 µm              |                                  |                          |
|   |   | S 40 N           | 5 µm              |                                  |                          |
|   |   | S 30 N           | 4 µm              |                                  |                          |
| Purifying/clearing<br>filtration          | yeasts<br>fine sludge                                     | S 20 N           | 3 µm              | 800 l                            | 2 bars                   |
|   |   | S 15 N           | 2 µm              |                                  |                          |
| Fine polishing<br>filtration              | yeasts<br>bacteria  | S 10 N           | 0.8 µm            | 500 l                            | 2 bars                   |
| Germ<br>reducing filtration               | reduction of germs<br>of yeasts and bacteria              | ST 9 N           | 0,6 µm            | 350 – 400 l                      | 1.2 bars                 |
|   |   | ST 7 N           | 0.4 µm            |                                  |                          |
| Microbiologically<br>effective filtration | microorganisms<br>and protection of<br>membrane cartridge | ST 5 N           | 0.3 µm            | 300 l                            | 1.2 bars                 |
|   |   | ST 3 N           | 0.2 µm            |                                  |                          |

#### HOBRAFILT® – Brief instructions for use

**Insertion of sheets** – filtersheets have coarse inlet sides and fine outlet sides with a slight grid-like pattern (they contain the inscription HOBRAFILT, type of filtersheet and lot Nr.).

**Flooding of sheets with water** – only slightly tighten the filter and flood it with water so that the water penetrates all sides of the elements and ensure that all the sheets are properly moistened; only then tighten the filter completely.

**Washing of sheets** – the washing should take approximately 10 to 15 minutes in the filtering direction and with the same flow rate (l/m<sup>2</sup>/h) as the actual filtration of the product. The washing should continue until the water passing through the filter is clear and free of any waste. Use of warm water may reduce the washing time.

**Filtration conditions** – start-up slowly – ensure a steady and even flow – no abrupt changes of the filtering rate – observe the recommended flow rate (l/m<sup>2</sup>/h) and the maximum permissible pressure difference (see the table above) – avoid pressure shocks in the absence of filler activity (bypassing the filtrate through the pump). – if possible, avoid interrupted filtration – do not allow air aspiration.

For more detailed instructions for using HOBRAFILT® filtersheets, visit our [www.hobra.cz](http://www.hobra.cz) website.

# CANDEFILT® – filter cartridges

Candefilt® – HMV (PES membrane filter cartridge)

Candefilt® – HMVS (PES membrane filter cartridge with a borosilicate pre-filter layer)

Candefilt® – HMVX (PES membrane filter cartridge new generation)

Candefilt® – HPV (PP depth pre-filter cartridge)

Candefilt® – HPF (PP pleated pre-filter cartridge)

## Table for use

| Filtering grade difference                     | To remove      | Cartridge type     | Retention (µm)    | Max. Flow l/h (10" cartridge) | Max. work. pressure |
|--|----------------|--------------------|-------------------|-------------------------------|---------------------|
| Fine protective filtration                     | fine sludge    | HPV / HPF          | nom. 0.5          | 300 / 500                     | 2 bars              |
|  |                |                    | nom. 1.0          | 350 / 500                     | 2 bars              |
| Sterile microbiologically effective filtration | microorganisms | HMVX               | abs. 0.2 (ZC)*    | ~200                          | 2 bars              |
|  |                | HMVS* / HMV / HMVX | abs. 0.45 (BV)**  | 300 / 450 / 700               | 2 bars              |
|  |                | HMVS* / HMV / HMVX | abs. 0.65 (CV)*** | 300 / 450 / 700               | 2 bars              |

\* ZC – wines with high content of residual sugar and colloids

\*\* BV – white wines

\*\*\* CV – red wines

**The most efficient protection of a membrane filter cartridge is the effect of depth filtration in sterile filtersheets (ST 9 N, ST 7 N, ST 5 N, ST 3 N).**

## CANDEFILT® – Brief instructions for use

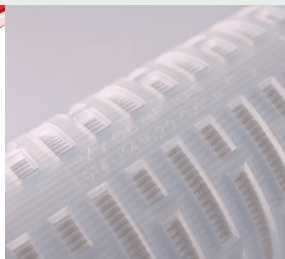
**Installation** – check the sealing o-rings, wet the filter saddle and cartridge or o-ring and install the cartridge by rotating it in both directions so that the o-rings are properly seated. After closing the filter fill it with filtered water and wash it for at least 5 minutes.

**Storage** – for short periods of time store the filter in a diluted sanitation solution; for long-term storage use a 50% alcohol solution.

More detailed instructions for the individual filter types are enclosed to filter cartridges or available at [www.hobra.cz](http://www.hobra.cz)

The ideal solution for the above mentioned filtration media are HOBRA stainless steel filter equipment. The HOBRA COL® sheet filter is suitable for filtersheets. The filters feature a compact design and are made of high quality stainless steel. The offer also includes an advantageous VS variant which combines high quality design and execution with an attractive price. Filtration on filter cartridges can then be performed on the compact CANDECOL filter housing. The filters ( housings) are very precisely executed and made only from top quality stainless steel. Even in this case you may choose the VS variant which particularly meets the needs of the wine industry.

If interested in "made in HOBRA" filter equipment approach an official HOBRA dealer or HOBRA directly.



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